# Laucks Testing Laboratories, Inc.

940 South Harney St., Seattle, WA 98108 (206) 767-5060 FAX 767-5063

Chemistry Microbiology, and Technical Services

CLIENT: Alaskan Copper Works

628 S. Hanford

Seattle, WA 98134

ATTN : Dale Olsen

Work ID

: TCLP Testing

Taken By : Client

Transported by: Hand Delivered

Type

: Sludge

SAMPLE IDENTIFICATION:

Sample

Description

01 3200 Acid Yard

02 3317 Plasma Burner Sludge

3 Method Blank

The flag "U" indicates the analyte of interest was not detected, to the limit of detection shown.

Unless otherwise instructed all samples will be discarded on 10/21/90

Respectfully submitted, Laucks Testing Laboratories, Inc.

Certificate of Analysis

Work Order# : 90-08-555

DATE RECEIVED: 08/30/90 DATE OF REPORT: 09/14/90

CLIENT JOB ID : M16437

FOUND 03/18/91

IN BACK OF DESK FILE WITH OTHER LAB REPORTS NEVER SHOWL TO JIM BROWN OR WATNE LARGON. NO WAY OF MOWING IF TEST WAS DONE EXPERIMENTALLY OR AS ACTUAL SAMPLE.

> 03/19/91 C!AS





Chemistry. Microbiology, and Technical Services

REPORT ON SAMPLE: 9008555-01A Client Sample ID: 3200 Acid Yard

Extracted by the Toxic Characteristic Leaching Procedure (TCLP), Method 1311, Test Methods for Evaluating Solid Waste, U.S.E.P.A., 3rd edition. Metals were determined on the aqueous extract using either the EPA's 7000 series or EPA Method 6010 or a combination of both.

### mg/L

				Analysis
Analyte	Result	MCL	$\mathtt{SDL}$	Date
Silver	0.10 U	5.0	0.1	09/11/90
Barium	0.10	100.	0.1	09/11/90
Cadmium	0.01 U	1.0	0.01	09/11/90
Lead	0.10 U	5.0	0.1	09/12/90
Chromium	2.6	5.0	0.1	09/11/90
Selenium	0.20 U	1.0	0.2	09/11/90
Arsenic	0.20 U	5.0	0.2	09/11/90
Mercury	0.01 U	0.2	0.005	09/07/90
Copper	4.7	N/A	0.1	09/11/90
Nickel	20	N/A	0.1	09/11/90
Zinc	1.8	N/A	0.1	09/11/90

MCL = Maximum Contamination Level, as established by regulation.

SDL = Sample Detection Limit





Chemistry Microbiology, and Technical Services

REPORT ON SAMPLE: 9008555-02A

Client Sample ID: 3317 Plasma Burner Sludge

Date Received : 08/30/90
Test Code : TCLP M

Collection Date : N/A
Date Extracted : 09/04/90

Extracted by the Toxic Characteristic Leaching Procedure (TCLP), Method 1311, Test Methods for Evaluating Solid Waste, U.S.E.P.A., 3rd edition. Metals were determined on the aqueous extract using either the EPA's 7000 series or EPA Method 6010 or a combination of both.

### mg/L

				Analysis
Analyte	Result	MCL	$\mathtt{SDL}$	Date
Silver	0.10 U	5.0	0.1	09/11/90
Barium	0.10	100.	0.1	09/11/90
Cadmium	0.01 U	1.0	0.01	09/11/90
Lead	0.10 U	5.0	0.1	09/12/90
Chromium	0.50	5.0	0.1	09/11/90
Selenium	0.20 U	1.0	0.2	09/11/90
Arsenic	0.20 U	5.0	0.2	09/11/90
Mercury	0.05	0.2	0.050	09/07/90
Copper	2.8	N/A	0.1	09/11/90
Nickel	30	N/A	0.1	09/11/90
Zinc	3.5	N/A	0.1	09/11/90

MCL = Maximum Contamination Level, as established by regulation.

SDL = Sample Detection Limit



Chemistry Microbiology, and Technical Services

# REPORT ON WORK ORDER 9008555 PREPARATION BLANKS

Test : Cadmium (Method 6010)

Blank Name : B0907ICPEP3 Preparation Date: 09/07/90 Conc Found : 0.010 U Control Limit : 0.020

Units : mg/L

This blank and comments, if any, apply to the following sample(s): 1,2

Test : Chromium (Method 6010)

Blank Name : B0907ICPEP3 Preparation Date: 09/07/90 Conc Found : 0.100 U Control Limit : 0.200

Units : mg/L

This blank and comments, if any, apply to the following sample(s): 1,2

Test : Copper (Method 6010)

Blank Name : B0907ICPEP3 Preparation Date: 09/07/90 Conc Found : 0.100 U Control Limit : 0.200

Units : mg/L

This blank and comments, if any, apply to the following sample(s): 1,2

Test : Nickel (Method 6010)

Blank Name : B0907ICPEP3 Preparation Date: 09/07/90 Conc Found : 0.100 U Control Limit : 0.200

Units : mg/L

This blank and comments, if any, apply to the following sample(s): 1,2



Chemistry Microbiology, and Technical Services

## REPORT ON WORK ORDER 9008555 PREPARATION BLANKS

Test : Lead (Method 6010)

Blank Name : B0907ICPEP3 Preparation Date: 09/07/90 Conc Found : 0.100 U Control Limit : 0.200

Units : mg/L

This blank and comments, if any, apply to the following sample(s): 1,2

Test : Selenium (Method 6010)

Blank Name : B0907ICPEP3 Preparation Date: 09/07/90 Conc Found : 0.200 U Control Limit : 0.400

Units : mg/L

This blank and comments, if any, apply to the following sample(s): 1,2

Test : Zinc (Method 6010)

Blank Name : B0907ICPEP3 Preparation Date: 09/07/90 Conc Found : 0.100 U Control Limit : 0.200

Units : mg/L

This blank and comments, if any, apply to the following sample(s): 1,2

\* = outside control limits
U = analtye not detected



Chemistry Microbiology, and Technical Services

# REPORT ON WORK ORDER 9008555 PREPARATION BLANKS

Test : Mercury (Method 7470)

Blank Name : B0906HGW01 Preparation Date: 09/06/90 Conc Found : 0.005 U Control Limit : 0.010

Units : mg/L

This blank and comments, if any, apply to the following sample(s):

Test : Silver (Method 6010)

Blank Name : B0907ICPEP3 Preparation Date: 09/07/90 Conc Found : 0.100 U Control Limit : 0.200

Units : mg/L

This blank and comments, if any, apply to the following sample(s): 1,2

Test : Arsenic (Method 6010)

Blank Name : B0907ICPEP3 Preparation Date: 09/07/90 Conc Found : 0.200 U Control Limit : 0.400

Units : mg/L

This blank and comments, if any, apply to the following sample(s): 1,2

Test : Barium (Method 6010)

Blank Name : B0907ICPEP3 Preparation Date: 09/07/90 Conc Found : 0.100 U Control Limit : 0.200

Units : mg/L

This blank and comments, if any, apply to the following sample(s): 1,2

